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(54) Title: HYDRIDE GAS PURIFICATION FOR THE SEMICONDUCTOR INDUSTRY

(57) Abstract: A method for hydride gas purification uses materials having at least one lanthanide metal or lanthanide metal oxide. The method reduces contaminants to less than 100 parts per billion (ppb), preferably 10 ppb, more preferably 1 ppb. The material can also include transition metals and transition metal oxides, rare earth elements and other metal oxides. The invention also includes materials for use in the method of the invention.

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